

Challenges in computing partons on lattice

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EIC in China will primarily probe parton physics in a high-energy proton or nucleus. However, computing partons on lattice is a difficult task and may take years to get high precisions. In this talk, I will consider a number of key factors which one must control to get reliable calculations, which include renormalization of linear divergences, taking continuum limit, creating large momentum states, and perturbative matching to higher-orders. Some progress in these areas will be discussed.

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